



A Subsidiary of the RWL Water Group USA

THE FACTS

LOCATION: Limassol, Cyprus

APPLICATION: Seawater Desalination

DATE OF INSTALLATION: Dec. 2008

PROBLEM: Severe water shortage

SOLUTION: Provided a containerized seawater desalination facility

CAPACITY: 22,000 m³/day

FOOTPRINT: 65,000 m²

CLIENT: Cyprus Development Authority

AEROMIX IS THE EXCLUSIVE SOURCE FOR NIROSOFT TURNKEY SOLUTIONS

- DESALINATION OF BRACKISH AND SEA WATER
- EFFLUENT RECLAMATION
- SUPPLY OF DRINKING WATER IN REMOTE LOCATIONS OR DISASTER AREAS
- DEMINERALIZED WATER
- WASTEWATER TREATMENT

ABOUT AEROMIX

AEROMIX is a world leader in water and wastewater treatment equipment. AEROMIX offers full lines of treatment systems, aeration, equipment, and solar-powered equipment. Learn more by visiting www.aeromix.com.



Challenge

With a growing population and burgeoning tourist industry, the city of Limassol in Cyprus was experiencing an increasingly severe water shortage. The Cyprus Development Authority needed a cost-effective solution, with a demand for a very short supply time.

Solution

A temporary containerized seawater desalination facility was designed as a solution. It receives seawater from an inlet pipe located 1.5 km offshore. After undergoing coarse and ultrafiltration, the water is placed in storage tanks. In the facility's reverse osmosis section, salt is removed from the water. Minerals are then added to improve the taste. The remineralized water goes into another holding tank before flowing out to the national water grid.

System Description

- Pre-treatment by ultrafiltration membranes
- Seawater reverse osmosis with energy recovery
- Remineralization

Modular Construction: Containerized Plant

A major feature of the plant is its modular structure — the entire site is containerized and can be moved at the end of the contract. When the temporary plant is removed from the site, there will be no trace of the complex water treatment system left behind.



Three-year BOT project

The plant was designed, built, and financed by Subsea and AEROMIX's partner company, Nirosoft who continue to operate and maintain the system for an interim period, estimated at three years, until a permanent plant is completed at another site outside of Limassol. At that time, the plant will be dismantled and removed from the Moni site.